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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/995,691	11/29/2001	Joon Shik Shin	0662-0163P	9800
2292	7590 07/15/2003			
BIRCH STEWART KOLASCH & BIRCH PO BOX 747			EXAMINER	
FALLS CHURCH, VA 22040-0747			KRISHNAN, GANAPATHY	
			ART UNIT	PAPER NUMBER
			1623	
			DATE MAILED: 07/15/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	•	Application No.	Applicant(s)	
066		09/995,691	SHIN ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Ganapathy Krishnan	1623	
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover she	et with the correspondence address	
I HE I - External ext	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, m ly within the statutory minimum o will apply and will expire SIX (6)	ay a reply be timely filed of thirty (30) days will be considered timely. MONTHS from the mailing date of this communication.	
1)[Responsive to communication(s) filed on			
2a) <u></u> □		is action is non-final.		
3)☐ Dispositi	Since this application is in condition for allow closed in accordance with the practice under on of Claims	ance except for formal	matters, prosecution as to the merits is C.D. 11, 453 O.G. 213.	
4)🛛	Claim(s) 1-4 is/are pending in the application.			
	4a) Of the above claim(s) is/are withdra	wn from consideration.		
	Claim(s) 1 is/are allowed.			
	Claim(s) <u>2-4</u> is/are rejected.			
	Claim(s) is/are objected to.			
	Claim(s) are subject to restriction and/o	r election requirement		
Application	on Papers	o o o o o o o o o o o o o o o o o o o		
9)□ T	he specification is objected to by the Examine	r.		
10)∐ T	he drawing(s) filed on is/are: a)☐ accep	oted or b) objected to b	by the Examiner.	
	Applicant may not request that any objection to the			
11)∐ T	he proposed drawing correction filed on	is: a) approved b) [disapproved by the Examiner.	
	If approved, corrected drawings are required in rep			
12) 🔲 T	he oath or declaration is objected to by the Exa	aminer.		
Priority u	nder 35 U.S.C. §§ 119 and 120			
13) 🗌 📝	Acknowledgment is made of a claim for foreign	priority under 35 U.S.	C. § 119(a)-(d) or (f).	
	All b)☐ Some * c)☐ None of:			
1	Certified copies of the priority documents	have been received.		
2. Certified copies of the priority documents have been received in Application No				
	B. Copies of the certified copies of the prior application from the International Burse the attached detailed Office action for a list of	ty documents have be eau (PCT Rule 17 2(a)	en received in this National Stage	
	knowledgment is made of a claim for domestic			
a)	The translation of the foreign language provices the translation of the foreign language provinces to the translation of the tr	isional application has	been received.	
Notice Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) tion Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)	
Patent and Trad O-326 (Rev.		on Summary	Part of Paper No. 9	

Art Unit: 1623

DETAILED ACTION

The Amendment A filed April 25, 2003 has been received, entered into the record and carefully considered. The following information provided in the amendment affects the instant application:

- 1. Claims 1-4 have been amended.
- 2. Remarks drawn to rejections under 35 U.S.C. 101, 112 and 103.

Claims 1-4 are pending.

Claim Rejections - 35 USC § 101

The rejection of Claim 1 under USC 101 has been overcome by amendment.

Claim Rejections - 35 USC § 112

The 112 first paragraph rejection of claim 1 has been overcome by amendment.

The 112 second paragraph rejections of claims 1-4 made in the previous office action have been overcome. New rejections are made as contained herein below.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2 and 3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 2 and 3 recites the terms "estrogen receptor modulator", "isotonic agent" "diluent", "lubricant" and "solubilizing aid" without particularly or distinctly providing chemical names or structures applicant intends such terms to represent. In the absence of

Application/Control Number: 09/995,691

Art Unit: 1623

a specific chemical name or structure it is not clear what substances are encompassed by these terms. The claims are rendered indefinite in all occurrences such terms are not sufficiently distinctly claimed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The rejections of Claims 1-3 under USC 103 have been overcome. However, Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kikuchi et al (Chem. Pharm. Bull. 1983, vol. 31, no. 7, pp. 2296-2301) is maintained for the reasons of record and for the reasons set forth herein below.

Applicant's argument regarding the rejection of claim 4 over Kikuchi et al has been considered but is not found to be persuasive.

Claim 4 is drawn to a process for making compound of formula (I) wherein R_2 is hydrogen and which is obtained by hydrolysis of compound of formula (I) wherein R_2 is cinnamoyl group and R_1 is a hydrogen or alkyl group.

Kikuchi et al teach the preparation of a compound of formula (I) wherein R_2 is hydrogen by the hydrolysis of a compound where R_2 is p-coumaroyl group (see pg. 2297, first paragraph, lines 6-7, hydrolysis of compound 3 to afford 1, Chart 1 and page 2300, the paragraph entitled Alkaline Hydrolysis of 8-O-(p-Coumaroyl)-harpagide(3)). The

Application/Control Number: 09/995,691

Art Unit: 1623

difference between the prior art and the instant invention is that the compound of the instant claim 4 contains a cinnamoyl group to be hydrolyzed. In compound 3 of the reference a coumaroyl group (group has a hydroxy substitution in the benzene ring) is hydrolyzed. The process yields the same product, namely harpagide (structure 1) whether a cinnamoyl or a coumaroyl group is hydrolyzed. Structure 1 of Kikuchi et al is a glucoside. Even though compound 3 of Kikuchi is similar to the one as instantly claimed one of ordinary skill in the art can see that the hydrolysis of compound 3 of Kikuchi gives the same compound as instantly claimed. Hence it is obvious to use the same process as Kikuchi et al to prepare the compound as instantly claimed. Since the instant claim is a process claim the use of harpagide for osteoporosis is of little to no patentable importance.

Claims 1-3 drawn to a method of treating osteoporosis, arthritis and ruptured disc comprising administering compound of formula I and a pharmaceutical composition containing formula I are neither taught nor fairly suggested in the prior art of record.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ganapathy Krishnan whose telephone number is 703-305-4837. The examiner can normally be reached on 8.30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James O. Wilson can be reached on 703-308-4624. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3014 for regular communications and 703-305-3014 for After Final communications.

, Application/Control Number: 09/995,691

Art Unit: 1623

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-

1235.

GK July 14, 2003

VIAMES O. WILSON

SUPERVISORY PATENT EXAMINER
TOUNDLOGY CENTER 1600